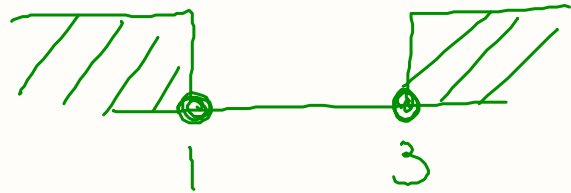
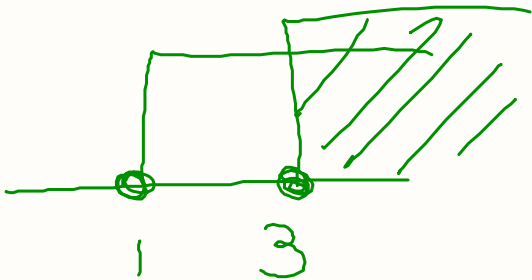
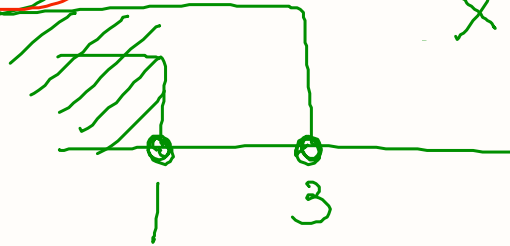


$$-3 \leq x \leq 1$$

AND

$$x \leq 1$$



NO SOLUTION

$$x \geq 3$$

AND

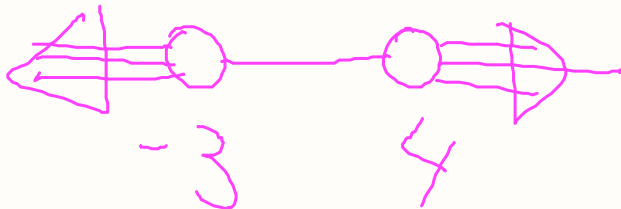
BOTH, OVERLAP

OR

$$x+7 < 4 \quad \text{OR} \quad x-2 > 2$$


$-7 \quad -7 \qquad \qquad +2 \quad +2$

$$x < -3 \quad \text{OR} \quad x > 4$$




ABSOLUTE VALUE INEQUALITIES

$$\begin{array}{r} 3x - 6 \leq 12 \\ +6 \quad +6 \end{array}$$

$$\frac{3x}{3} \leq \frac{18}{3} \quad x \leq 6$$
A number line with an arrow pointing to the left and a solid dot at 6.

$$|3x - 6| \leq 12$$

$$\begin{array}{r} -12 \leq 3x - 6 \leq 12 \\ +6 \quad +6 \quad +6 \end{array}$$
A number line with solid dots at -2 and 6, and a double line segment connecting them.

$$\begin{array}{r} -6 \leq 3x \leq 18 \\ \frac{-6}{3} \quad \frac{0}{3} \quad \frac{18}{3} \end{array}$$

$$\boxed{-2 \leq x \leq 6}$$

$$|x-6| > 2$$

$$x-6 > 2$$

$$+6 \quad +6$$

$$\underline{x > 8}$$

$$-x = 1 \cdot x$$

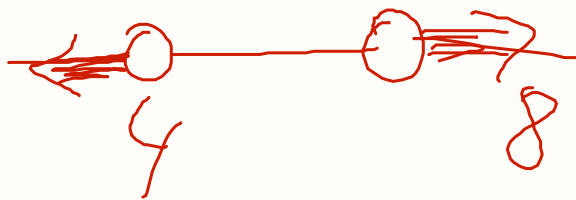
$$-1(x-6) > 2$$

$$-x + 6 > 2$$

$$-6 \quad -6$$

$$-x > -4$$

$$\underline{x < 4}$$



$$|4x - 7| \leq 3$$

$$\begin{array}{ccccc} -3 & \leq & 4x - 7 & \leq & 3 \\ +7 & & +7 & & +7 \end{array}$$

$$\begin{array}{ccccc} 4 & \leq & 4x & \leq & 10 \\ \hline 4 & & 4 & & 4 \end{array}$$

$$1 \leq x \leq 2.5$$